2/034/61/000/010/001/002 £112/E553

Horcic, Karel, Engineer and Dvořáček, Josef AUTHORS :

Some problems of aluminium production TITLE:

PERIODICAL: Hutnické listy, 1961, No.10, pp.710-715

Present aluminium production in Czechoslovakia does not meet steadily increasing demands and projects for the building of additional plant, with special reference to available raw materials and their location, are discussed. The problem is presented in three main sections: 1) Production of aluminium oxide, 2) its conversion, by electrolysis, to aluminium, and 3) possibility of aluminium production by an electric furnace. Ad 1) Two processes are available for aluminium oxide production: the Bayer process which is only applicable to high-grade, SiO2-poor bauxites and the older fusion process which is limited to lowergrade bauxites. The aluminium works in Czechoslovakia are based on aluminium oxide, produced by the fusion process from lowergrade Hungarian bauxite. The process is more complicated, energy expenditure is higher and the material is not very well suited for A special desilication process is electroconductive aluminium, Card 1/5

CIA-RDP86-00513R000618120018-4" **APPROVED FOR RELEASE: 09/21/2001**

THE REPORT OF THE PROPERTY OF THE PARTY OF T

Some problems of aluminium production 2/034/61/000/010/001/002 E112/E553

inserted in the Czechoslovak plant. It is suggested that lower grade bauxites may be processed by a combination of the Bayer and fusion methods, but difficulties may be encountered at some stages of the process, particularly during filtration of the residues of iron exides. Production costs of aluminium oxide and aluminium are itemized, indicating that raw material costs are the decisive factor for aluminium oxide, while electric energy is the essential factor for aluminium.

Ide cor	
Aluminium:	.56% (from 80% Al ₂ O ₃)
Aluminium: Raw-material	. 22%
Electric energy	.11.2%
Wages Maintenance	. 2,2%
Maintenance	4 . 7%
Special costs	100.0%
Total	

Card 2/5

Some	problems	of	aluminium	Z/034/61/000/010/001/002 E112/E553

Aluminium oxide: Raw materials (bauxite) Energy (electric, steam, water, air)	= =96
170,000	27 E%
Maintenance	100.0%
Total	

The complex nature of the aluminium process is mirrored by high maintenance costs. Supplies of Hungarian bauxite are limited and domestic raw materials will have to be investigated. The kaolinites from the North Bohemian coal basin (dry contents: 30-35% Al₂O₃, 40-45% SiO₂, 2-10% Fe₂O₃, 1-6% TiO₂) are, theoretically, of interest because of the relatively high Al content, but the high SiO₂ ratio, on the other hand, would necessitate a preliminary treatment. Although the process would necessitate a preliminary treatment costs would not exceed that of the fusion process from low-grade bauxites. Reliable data of the fusion process from low-grade bauxites. Reliable data could, however, be established only after prolonged pilot-plane experiments. It is generally estimated that aluminium production from domestic materials would require a period from 8 to 10 years Card 3/5

Some problems of aluminium production Z/034/61/000/010/001/002 E112/E553

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before it could be established successfully. The purchase of bauxite from overseas may be necessary. Ad 2) The electrolytic process for aluminium production from Al₂O₃ as described in detail. Types of electrolytic cells are reviewed. Aluminium works ought to be built in the immediate vicinity of cheap electricity supply. The problem is complicated by the fact that power stations in Czechoslovakia are located in the more densely populated agricultural districts. The effects of the toxic anodic exhalations have to be carefully examined. These considerations would suggest that production units should not exceed an annual production of 100 000 tons of Al. In order to improve the economy of the electrolytic process, the use of semiconductor rectifiers and large electrolytic cells with an intensity of 100 kA are recommended, Ad 3) Discussion of electrothermic process. It should be possible, on theoretical considerations, to meet the entire Czechoslovak requirements of aluminium alloys (silumine, an alloy with silicium) from domestic raw materials (low-grade kaolines) by using the electric arc process. The construction of a highcapacity single-phase arc furnace remains the main problem. The purchase of a pilot-plant furnace from Eastern Germany is Card 4/5

Some problems of aluminium production Z/034/61/000/010/001/002 E112/E553

recommended. The results of some Soviet experiments with an experimental furnace of 16 MVA should be awaited.

ASSOCIATION: Hutní projekt, Prague

SUBMITTED: July 11, 1961

Card 5/5

"APPROVED FOR RELEASE: 09/21/2001 CIA-R

CIA-RDP86-00513R000618120018-4

HORCICKA, N.

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Technology of ore crushing. p. 54.

Vol. 4, no. 2, Feb. 1956 RUDY Praha, Czechoslovakia

Source: East European Accession List. Library of Congress Vol. 5, No. 8, August 1956

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HORCICKA. Vindke; PHIKAH, Mailed , Prof. MiDr.

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1. Gastroenterologicke Interator fakulty University Teleckeho v Olomouci (prednosta: prof. MDr. Vladimir Felikan).

SVOBODA, Vladimir, inz.; HORCICKA, Zdenek, inz.

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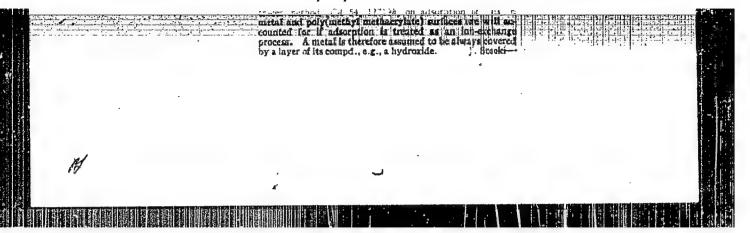
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HORCZAK, T. More solicitude for the fishery school. p. 4. GOSPODARKA RYBNA Warszawa, Poland. Vol. 8, No. 3, Mar. 1956

SOURCE: East European Accessions List (EEAL) LC Vol. 5, No. 6, June 1956

HORCZYNSKA, E		
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NGUYEN KHAC MAO; DROSTE, Z.; HORLEJUK, J.; TEISSEYRE, R.

Analysis of macroseismic phenomena and dynamic processes in the earthquake of June 12, 1961 in Vietnam. Acta geophys Pol 11 no. 1/2: 19-34 163.

- Institute of Geophysics, Polish Academy of Schences, Warsaw.
- 2. Phu-Lien Observatory (for NGUYEN KHAC MAO).

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DROSTE, Z.; DZIEWONSKI, A.; HORDEJUK, J.

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l. Zaklad Geofizyki, Polska Akademia Nauk, Warszawa.

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P. 103. (ACTA GEOHN'SICA POLONICA.) Foland, fol. 5, No. 2, 1957.

SO: Monthly Index of East European Acessions (AEEI) Vol. 6, No. 11, November 1957.

3(5) AUTHORS:

POL/26-7-2-4/18

Droste, Z., Gibowicz, S., and Hordejuk, J.

TITLE:

Analysis of the First Movements of the Seismic Waves

Recorded on Seismographs

PERIODICAL:

Acta geophysica polonica, 1959, Vol 7, Nr 2, pp 136-

164 (POL)

ABSTRACT:

New problems developing in modern seismologic science require in many cases accurate knowledge of the true values of the amplitudes and periods of the first recorded movements of the seismic wave. These values are, as a rule, strongly deformed by instruments. Complete elimination of these distortions by computation is impossible at present owing to cur lack of knowledge of the analytical shape of true ground movement. From recent research work it appears that the frequency characteristics computed for first ground vibrations do not show major dissimilarities. In order to simplify computation, a sinusoidal form of the ground vibrations will therefore be assumed in this investigation. Recent experimental material

Card 1/3

POL/26-7-2-4/18 Analysis of the First Movements of the Seismic Waves Recorded on Seismographs

confirm the correctness of such an assumption. The purpose of this investigation is to examine the deformations in periods and first amplitudes caused by seismographs of various types. Two types of seismographs were examined. For the first type, seismographs with mechanical recording, the character of period and amplitude deformations in the first movement is shown in figure 15, the seismograph used being one with a free vibration period of 6 seconds and a damping constant of 0.1. The other type of apparatus investigated is the seismograph with galvanometric recording. The frequency characteristics in this case are illustrated in figures 19, 20, and 21. A full English summary appears on pp 157-164. There are 21 graphs and 7 references, 4 of which are Soviet, 1 Czech, 1 French, and 1 Pclish

Card 2/3

POL/26-7-2-4/18 Analysis of the First Movements of the Seismic Waves Recorded on Seismographs

ASSOCIATION:

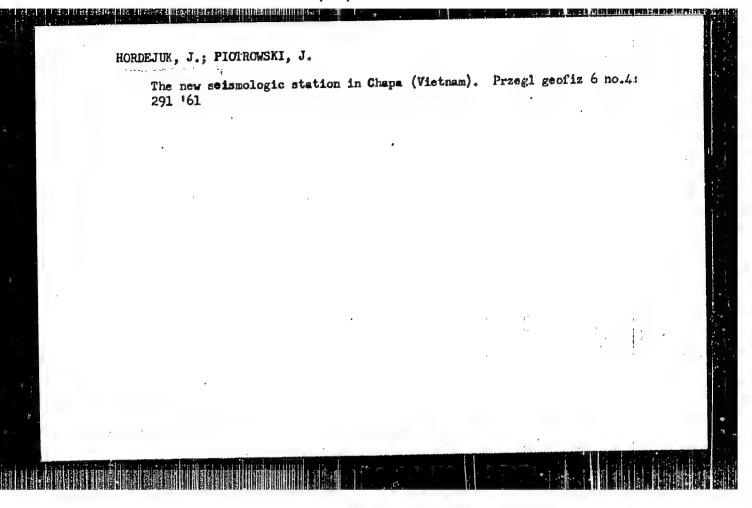
Instytut Geofizyczny Polskiej Akademii Nauk (Institute of Geophysics of the Polish Academy of Sciences)

SUBMITTED:

April 10, 1959

Card 3/3

CIA-RDP86-00513R000618120018-4" APPROVED FOR RELEASE: 09/21/2001



BOBR-MODRAKOWA, Irena [deceased] DRUSTE, Zofia; HORDEJUK, Jozef

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1. Budapesti Orvostudomanyi Egyetem, Tudogyogyaszati Klinika es III. ker. Tanacs, Tudobeteggondozo Intezet.

HORDFOVA, J.; WEICHERT, J.

Studies of the vitamin K and vitamin E series. II. Analogues of the a-tokopherol with unbranched side-chains. p. 133. (Chemicke Listy. Vol. 5, no. 1, Jan. 1957.)

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HORDYNSKI, Krzysztof

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HORECKY, J.; HORECKA, E.

CELEXIARINE PROGRESSION DE LA TRESTADE LA HILBERTARIA DE LA TRESTADA DEL TRESTADA DE LA TRESTADA DE LA TRESTADA DEL TRESTADA DE LA TRESTADA DEL TRESTADA DE LA TRESTADA DE LA TRESTADA DE LA TRESTADA DE LA TRESTADA DEL TRESTADA DE LA TRESTADA DEL LA TRESTADA DE LA TRESTADA DE LA TRESTADA DE LA TRESTADA DE L

Hypothermic cardioplegia and deep hypothermia of the heart. Bratisl.lek.listy 44 no.4:211-222 *64.

1. Experimentalne laboratorium Katedry chirurgickej propedeutiky Lek.fak. Univ. Komenskeho v Bratislave (veducitakademik K.Siska) a Detske stredisko 4. polikliniky Mestskeho ustavu narodneho zdravia v Bratislave (riad.: dr.M.Chorvat).

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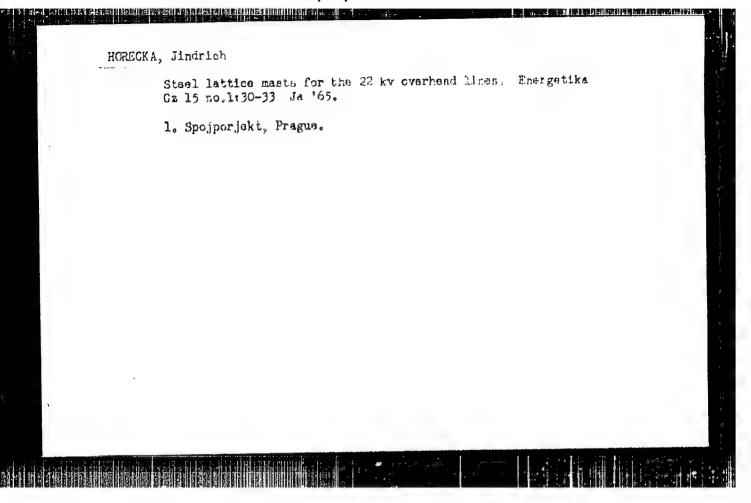
(SALICYCLIC ACID rel cpds) (LIVER FUNCTION TESTS)

SIMEK, Karel; HORECKA, Jana; Technicka asistence: SMUJKALOVA, Marie Heterohemagglutination in spidemic hepatitis, Scr. med. fac.

ZENDOLINE KULURINA DER BURURINU DER KILLER KONTONER

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1. Katedra mikrobiologie lekarske fakulty university J.E. Purkyne w Brne. Vedouci katedry: MUDr. Lad. Jandasek, C.Sc. Infekcni klinika fakultni nemocnice v Brne-Bohumicich Prednosta: prof. MUDr. Vaclay Houbal, Dr.Sc.
(HEPATITIS, INFECTIOUS) (HEMAGGLUTINATION)
(ANTIBODY FORMATION) (LIVER DISEASES) (LIVER FUNCTION TESTS)



"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618120018-4

L 34070-00

ACC NR: AP6025847

SOURCE CODE: CZ/CO17/66/055/CO2/CO78/CO82

AUTHOR: Horecky, Drahomir (Engineer)

ORG: Research and Development Institute of Rotary Electrical Machinery, Erno (Vyzkumny a vyvojovy ustav elektrickych stroju tocivych)

TITIE: Certain factors are given for calculations of the mean reactive voltage upon assumption that the current changes in the commutator coil are linear

SOURCE: Elektrotechnicky obzor, v. 55, no. 2, 1966, 78-82

TOPIC TAGS: electronic commutator, voltage regulation, direct current, electric motor, armature, magnetic field

ABSTRACT: Small and medium DC machines usually are equipped with commutating poles having flat pole-shoes which generate a magnetic field which neutralizes the mean value of the reactive voltage. That voltage can be calculated with given equations. To simplify the calculation, Richter introduced the factors $\mathcal H$ and $\mathcal H'$. Calculated values for quite a restricted number of cases were published by him. At the Institute the values of $\mathcal H$ and $\mathcal H'$ were calculated for all used armature windings for small and medium DC motors, and those values are presented in annexed tables. This paper was presented by Professor, Engineer J. Chladek. Orig. art. has: 4 figures, 15 formulas and 6 tables. [Based on author's Eng. abstract] [JPRS: 35,327]

SUB CODE: 09 / SUBM DATE: 02Jul65 / ORIG REF: 007 / OTH REF: 004

Card 1/1 918

UDC: 621.318

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Pouzitie elektroniky (Applied Electronics) p. 430

TECHNICKA PRACA. Bratislava, Czechoslovakia, Vol. 7, Mo. 9, Sept. 1955

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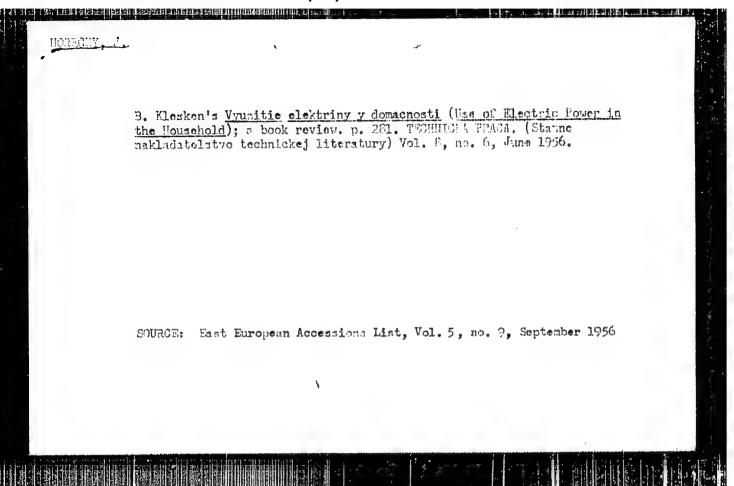
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Vol. 8, no. 1, Jan. 1956 TECHNICKA PRACA Bratislava, Czechoslovakia

इस्यान गर्छक्ष सङ्ग्रह्मा राज्य द्वाराज्य ता विद्यासम्बद्धाः । ।

Source: East European Accession List. Library of Congress Vol. 5, No. 3, August 1956



HORECKY, J.

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SO: Monthly List of East European Accession (EEAL) LC Vol. no. 7, July 1957, Uncl.

ROZHOLD, J.; ROZHOLD, Z.; PIVKOVA, A.; HORECKY, J.

Choice of perfusion flow in prolonged extracorporeal circulation. Bratisl. lek. listy 44 no.2:84-89 164.

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PIVKOVA, A.; HORECKY, J.; ROZHOLD, J.; ROZHOLD, Z.

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Some problems in prlonged extracorporeal circulation in experimental conditions. Bratisl. lek. listy 44 no.4:203-210 *64.

1. II. Chirurgicka klinika v Bratislave (veducit akademik K. Siska) a Vojemska nemocnica v Bratislave (veducit MUDr. Z.Rozhold).

HORECKY, J.; HORECKA, E.

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1. Experimentalne laboratorium Katedry chirurgickej propedeutiky Lek.fak. Univ. Komenskeho v Bratislave (veducitakademik K.Siska) a Detske stredisko 4. polikliniky Mestskeho ustavu narodneho zdravia v Bratislave (riad.: dr.M.Chorvat).

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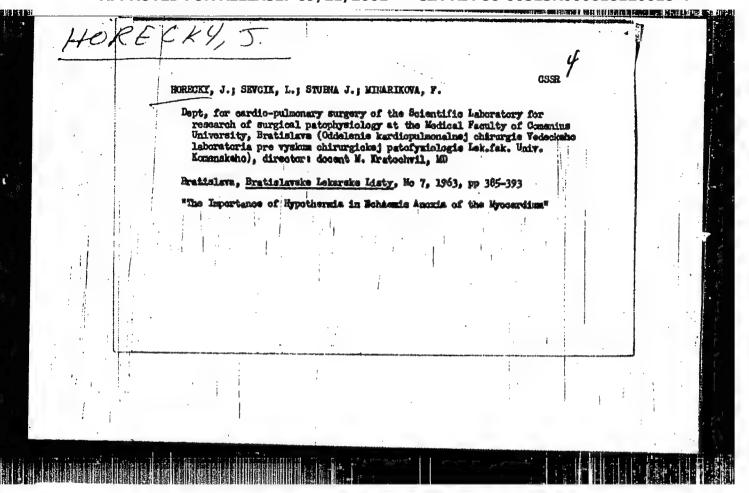
CZECHOSLOVAKIA

no academic degree indicated

Department of cardiopulmonary surgery, Scientific Laboratory for the Research of Surgical Patophysiology, Medical Faculty, Comenius University (Oddelenie kardiopulmonalnej chirurgie vedeckeho laboratoria pre vyskum chirurgickej patofyziologie Lekarskej fakulty Univerzity Komenskeho), Bratislava; Director: docent M. KRATPCHVIL, MD.

Bratislava, Bratislavske Lekarske Listy, No 9, Nov 62, pp 505-515.

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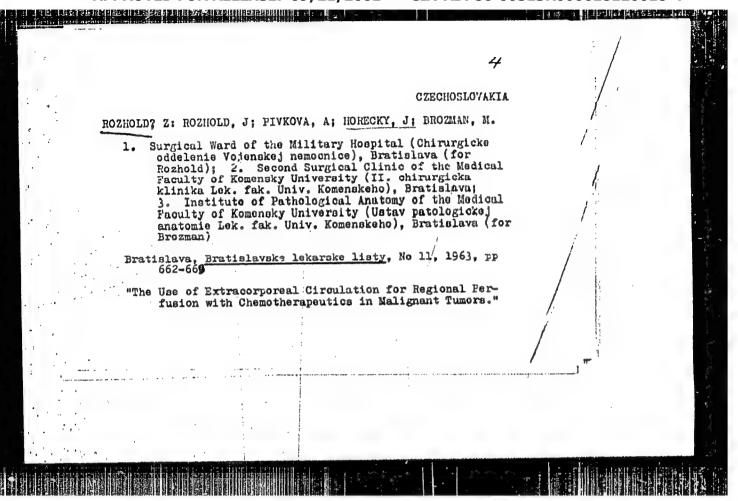
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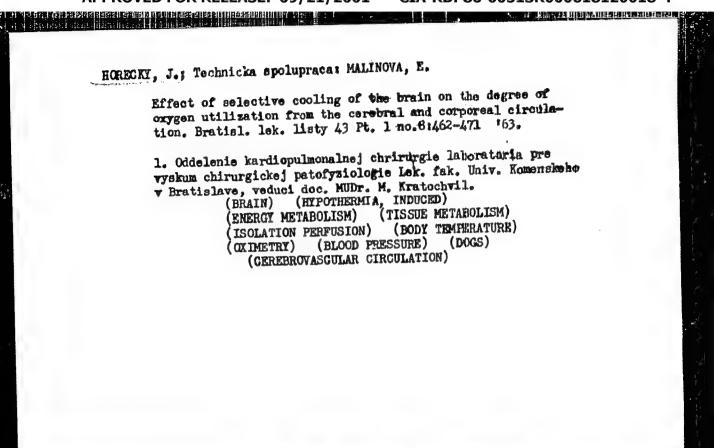
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Department of Cardiopulmonary Surgery of the Laboratory of Higher Surgical Pathophysiology of the Medical Faculty of Komensky University (Oddelenie kardiopulmonalnej chirurgie laboratoria pre vyskum chirurgickej patofyziologie Lek. fak. Univ. Komenskeho), Bratislava

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1. Experimentalne laboratorium Katedry II chir. kliniky Lek. fak. Univ. Kemenskeho v Bratislave, veduci akademik CSAV K. Siska.

(BRAIN) (TISSUE METABOLISM)
(ENERGY METABOLISM) (HYPOTHERMIA, INDUCED)
(CEREBROVASCULAR CIRCULATION)
(BLOOD VISCOSITY)

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HORECKY, J.; PIVKOVA, A.

Blood flow changes during hypothermic brain perfusion. Bratisl.
lek. listy 43 Pt. 2 no.5:260-270 '63.

1. Experimentalne laboratorium Katedry II chirurgickej kliniky
lek. fak. Univ. Komenskeho v Bratislave, veduci akademik
K. Siska.

(PERFUSION) (CAROTID ARTERIES)
(HYPOTHERMIA, INDUCED)
(CEREBROVASCULAR CIRCULATION)

HORECKY, J.; PIVKOVA, A.; ROZHOLD, J.; HOZHOLD, Z.

Effect of extracorporeal cardiopulmonary by-pass on the healthy body in experimental conditions. Bratisl. lek. listy 44 no.6: 358-368 30 S '64.

1. Experimentalne laboratorium Katedry II. chirurgickej Eliniky Lek. fak. Univerzity Komenskeho v Bratislave, (veduci akademik K. Siska) Chirurgicke oddelenie Vojenskej nemocnice v Bratislave, (veduci MUDr. Z. Rozhold).

HORECKY, J. Technicka spoluprace TROCHTA, L.

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Heat exchange in regional perfusion. Rozhl.chir. 44 no.1:51-63 Ja '65

1. Experimentalne labortorium II. chirurgickej kliniky Lekarskej fakulty University Karlovy v Bratislave (prednosta: akademik K. Siska).

SUJAMSKY, E.; HORECKY, J.; SILVAY, J.

Vascular tonus changes during selective hypthermia of brach. Bratisl. lek. listy 45 no.11:666-674 15 Je *65.

l. Ustav experimentalnej chirurgie Slovenskej akademie vied v Bratislave (riaditel:akademik K. Siska, Dr.Sc.) a Exp. laboratorium II. chirurgickej kliniky Lekarske fakulty Univerzity Komenskeho v Bratislave (veduci: akademik K. Siska, Dr.Sc.).

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HAVIAR, V.; ZAJAC, M.; HORECKY, J.; PIVKOVA, A.; ROZHOLD, J.; ROZHOLD, Z.

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Use of a pump oxygenator in the treatment of patients with corpulmonale complicated by hepercapnia and respiratory acidesis. Bratisl. lek. listy 45 no.6:367-371 30 S '65.

1. Z II. int. kliniky Lek. fak. Univerzity Komenskeho v Bratislave (veduci prof. MUDr. V. Haviar) z II. chir. kliniky Lek. fak. Univerzity Komenskeho (veduci prof. MUDr. K. Siska) a z chir. odd. Vojenskej nemocnice v Bratislave (veduci MUDr. Z. Rozhold).

HORECNY, K.

TELANGRAM SALISTIAN DE SOLONIA MENUNDINI DE LA LA CALLANDA DE LA CALLANDA DEL CALLANDA DE LA CALLANDA DE LA CALLANDA DEL CALLANDA DE LA CALLA

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1. Katedra pediatrie II. lek. fak. Univ. Komenskeho v Bratislave; veduca: prof. MUDr. J. Michalickova.

HORECAY, K.; PENIAZRA, J.

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1. Of the Children's Clinic and of Pathologico-Amatomical Institute of Slovak University in Bratislava.

HORECNY, K.

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1. Of the Pediatric Clinic of Slovak University, Bratislava.

HORECHY, K.; WAGENHOFER, E.

Diagnostic examination of the cerebrospinal fluid in children.
Bratisl. lek. listy 34 no.2:148-168 F 54.

1. Z Detskej kliniky LFSU v Bratislave, prednosta doc. dr
J.Michalickova.

(PEDIATRIC DISEASES, cerebrospinal fluid in,)

(CEREGROSPINAL FLUID, in various diseases,
*pediatric dis.)

HORECNY, K.: WAGENHOFER, E.

Possibilities and importance of electrophoresis in determination of blood proteins in pediatrics. Bratisl. lek. listy 34 no.5:497-510 My 54.

1. Z II. detskej kliniky LFSU v Bratislave, prednosta doc. dr.

J.Michalickova.

(BLOOD PROTEINS, determination,
electrophoresis in inf. & child.)

(ELECTROPHORESIS,
of blood proteins in inf. & child.)

BREUER, N.; HORECHY, K.; WAGENHOFER, E.

Aldolase test in children. Gesk. pediat. 13 no.9:803-805 5 Oct 58.

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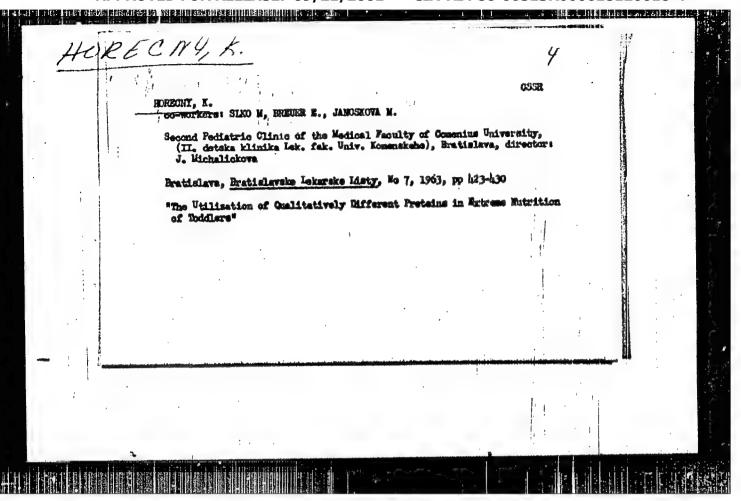
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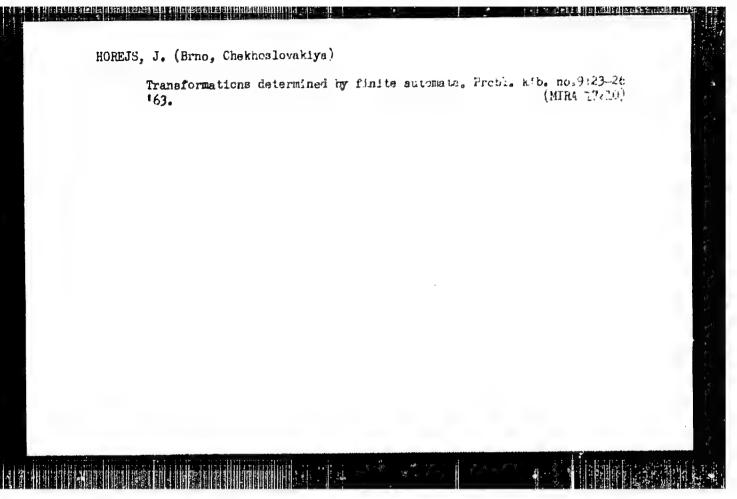
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The Dependence of the Hardness Distribution on the TITIE: Microstructure in the Head of Surface-Hardened Rails

(Souvislost průběhu tvrdosti v hlavě povrchově kalených

kolejnic s mikrostrukturou)

PERIODICAL: Hutnické Listy, 1959, Nr 7, pp 649-656 (Czechoslovakia)

ABSTRACT: Czechoslovak Metallurgical Report, Nr 7, July, 1959.

One of the possible methods of heat treatment of rails is to harden the surface by quenching the railhead from the temperature of the rail at the end of the rolling process and to temper it by means of the internal heat of the core of the rail and the railhead. This method is

applicable both for hardening the ends of rails and also

for hardening the running surface of the railhead. Experience gained during 1953 and 1954 at the Vitkovice Iron Works (Ref 1) has shown that the hardness does not decrease continuously with the depth as it should; at a certain depth below the running surface the drop in hardness stops and there is a rise in the hardness with depth which is followed by a continuous slow drop in

Card 1/6 hardness towards the centre of the railhead. Since it is

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The Dependence of the Hardness Distribution on the Microstructure in the Head of Surface-Hardened Rails

known from literature (Ref 2) that, in surface hardened rails, the surface hardened layer frequently peels off and there may even be slip of the hardened layer in the longitudinal direction followed by chipping off, the author of this paper considered it of interest to investigate the cause of the transient increase in hardness and the relation between this increase and the applied hardening process. Most authors do not mention the presence of a transient increase in hardness at a certain depth below the running surface, however, H. O'Neill (Ref 3) reported that he detected a transient increase in the hardness of surface hardened rails with carbon contents of 0.50 to 0.55% and manganese contents of 1.10 to 1.20%. His results are reproduced in the graph, Fig 1, p 649. The author of this paper carried out tests under laboratory and normal operation conditions. The equipment used in the experiments was described in an earlier paper. It consisted of a sheet steel box, one side of which was provided with holes, the

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> shapes of which were adapted to the shape of the railhead. Asbestos lining prevented penetration of the water to the vertical and the bottom parts of the rail. laboratory experiments, rail sections of about 500 mm length were used with chemical compositions as enumerated in Table 1; for two of these the hardness as a function of the depth is graphed in Fig 2, whereby one of the rails was quenched for 27 secs from 830°C, the other was quenched for 45 secs from 830°C. For the spots designated by arrows in this graph, microstructure photographs were taken which are reproduced in Figs 3 and 4. Comparison of the microstructure with the hardness characteristic shows that the zone of maximum hardness, directly below the running surface, consists of pure sorbite (Fig: 3a, 4a), whilst at the spots of relative minimum hardness the structure was found to be bainitic. The beginning of the second increase in hardness is characterized by the appearance of fine pearlite (troostite), Figs 3b and 4b, in continuously increasing quantities until fine pearlite is

Card 3/6 the only structural component in the region of the relative

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Thus.

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hardness maximum, Fig 3e. Then, towards the core of the railhead, the inter-lamellar distance increases gradually and so does the quantity of pro-eutectic ferrite at the grain boundaries. According to O'Neill, the formation of a pronounced bainitic zone is due to the transformation characteristics of a given steel during continuous cooling. If this were true, a similar phenomenon should occur in Jominy test rods made of the same material. However, results, shown in Fig 5, confirm the known fact that for these steels Jominy test specimens do not show a transient increase in hardness, i.e. that the explanation of O'Neill is incorrect. On the basis of the obtained results it is concluded that:

1) A condition for the occurrence of a pronounced bainite zone is the existence of an austenite zone (possibly with a certain quantity of bainite) under the martensite zone at the instant when the quenching is stopped. During

subsequent tempering by the internal heat of the rail.

this austenite becomes transformed into bainite.

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The Dependence of the Hardness Distribution on the Microstructure in the Head of Surface-Hardened Rails

a determining factor on whether a pronounced bainite zone occurs is the mutual relation between the quenching time and the hardenability of the used steel.

2) The formation of a relative minimum and a relative maximum is due to the fact that during tempering the hardness of the bainite drops faster than that of fine pearlite so that even after a few seconds the hardness of the bainite will be lower than the hardness of the fine pearlite.

3) The occurrence of a relative minimum and a relative maximum on the hardness curves in the cross-section of a surface hardened rail is not a necessary condition for the existence of a relative maximum and a relative minimum on the hardness curve obtained on a Jominy specimen hardened by current methods. However, if the hardening time is shortened, Jominy specimens will also show relative minima and relative maxima of the hardness.

4) The formation of a bainite zone, and thus also the formation of a relative minimum and maximum of hardness,

Card 5/6 can be prevented either by increasing the quenching

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duration (if this is possible without exceeding the maximum permissible hardness of the tempered martensite, which should not exceed 400 HB), or by reducing the hardenability of the used steel to Di ≥ 35 mm.

5) Practical experience gained in 2 1/2 years rail operation indicates that the presence of the bainite zone in the hardened ends of rails does not affect adversely the rail performance on the track. There are 13 figures, 2 tables and 10 references, 2 of which are Czech, 5 English and 3 German.

ASSOCIATION: Výzkumný ústav VŽKG, Ostrava (Research Institute VŽKG, Ostrava)

SUBMITTED: March 4, 1959

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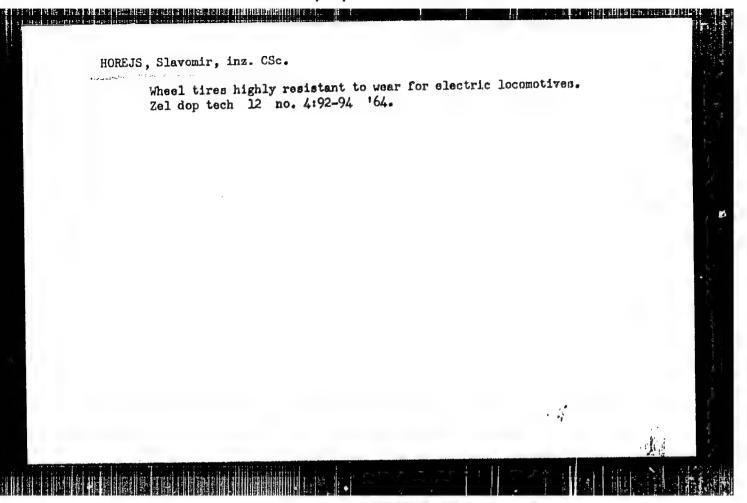
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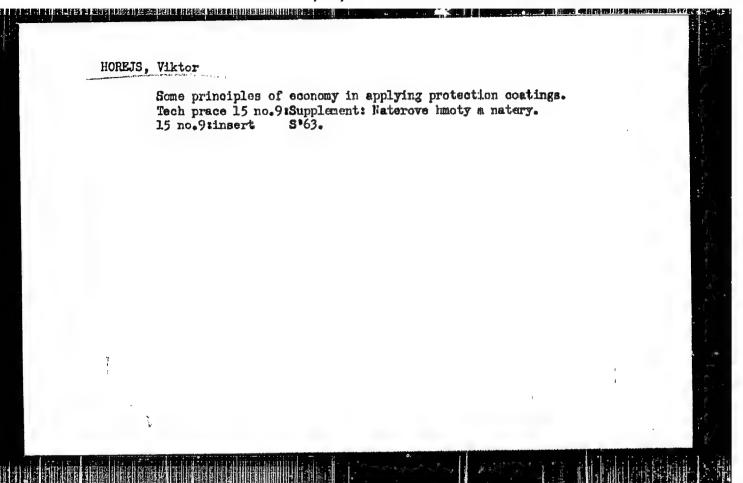
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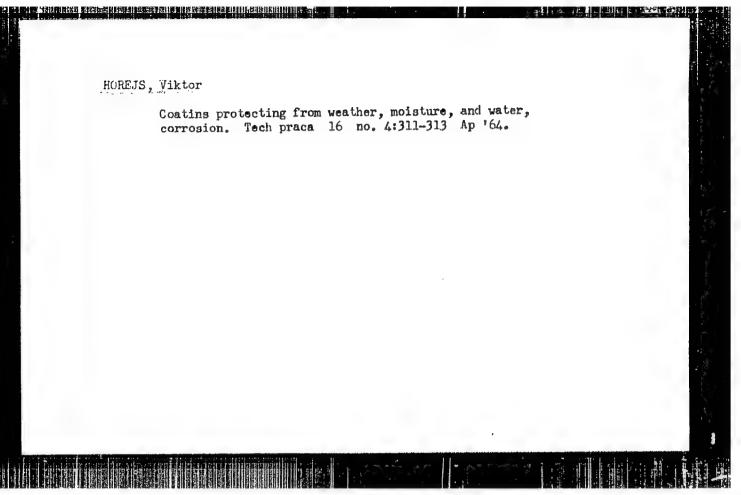
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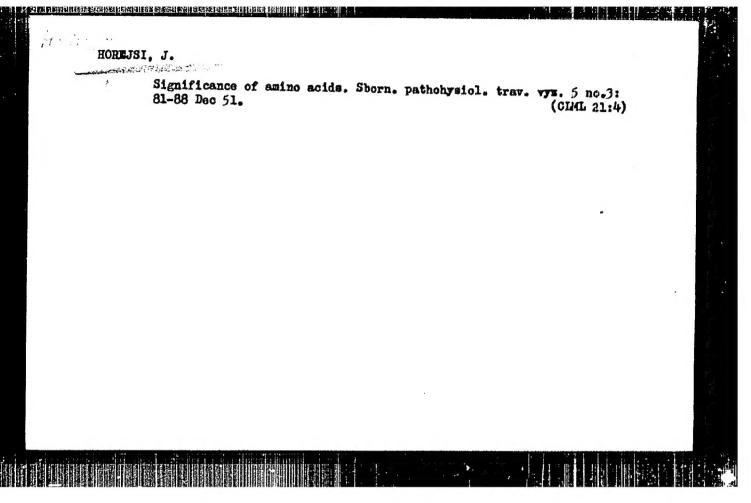
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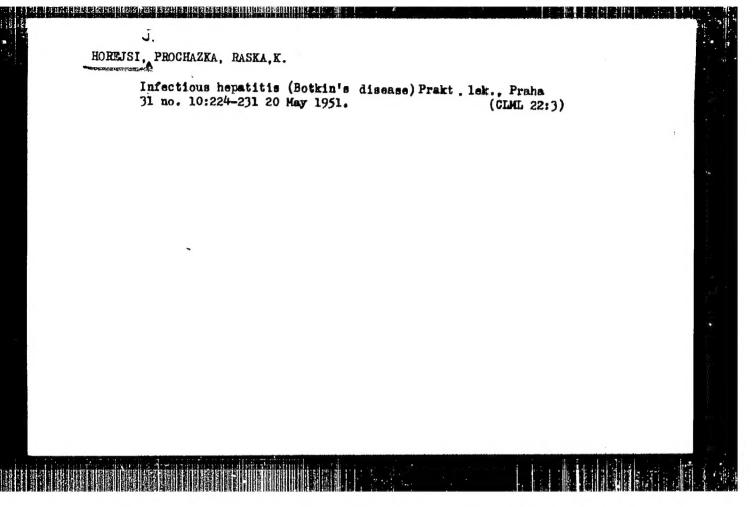
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